

# DRAFT

December 2005

## **IMPORT HEALTH REQUIREMENTS OF VIETNAM FOR BOVINE EMBRYOS EXPORTED FROM THE UNITED STATES**

The embryos must be accompanied by a U.S. Origin Health Certificate issued by a veterinarian authorized by the U.S. Department of Agriculture and endorsed by a Veterinary Services veterinarian. The certificate must provide the names and addresses of the consignor, consignee, embryo collection facility, and farms of origin of the embryo donors; full identification of the embryos (names and registration numbers of the embryo donor and semen donor, semen collection date, insemination date, embryo collection date, and number of embryos for each collection), and the following certification statements.

### **CERTIFICATION STATEMENTS**

1. The United States has been free of contagious bovine pleuropneumonia, East Coast fever, foot-and-mouth disease, and rinderpest for the last 3 years.
2. No case of vesicular stomatitis was reported within 10 km of the embryo collection (EC) facility or the farm of origin of each embryo donor during the 3 months immediately prior to collection of the embryos for export.
3. The EC facility and the farm of origin of each embryo donor have been officially free of brucellosis and tuberculosis for the last 3 years.
4. The EC facility and the farm of origin of each embryo donor have been clinically free of Johne's disease for the last 3 years.
5. The EC facility and the farm of origin of each embryo donor have been clinically free of bovine genital campylobacteriosis (BGC), bovine virus diarrhea (BVD), leptospirosis, and trichomonosis for the last 12 months.
6. The semen used to produce the embryos met Certified Semen Services standards or equivalent.
7. Each embryo donor was healthy and free of signs of infectious disease at the time of embryo collection.
8. Each embryo donor was tested at some time in its life for persistent BVD virus infection, with negative results.
9. The embryos were collected, processed, and stored in conformance with the Manual of the International Embryo Transfer Society (IETS) and/or the OIE Terrestrial Animal Health Code.

10. During processing, the embryos were transferred through five washes in phosphate buffered saline (PBS) containing bovine serum albumin (BSA), then through two washes in 0.25% trypsin, pH 7.6-7.8, for a total trypsin exposure time of 60-90 seconds, then through five washes in PBS containing serum instead of BSA. Each of the washes was a 100-fold dilution of the previous one and a fresh sterile pipette was used for each transfer.

11. The embryos are packed in ampules/straws that are permanently marked as to collection date and identity (including breed) of the semen and embryo donors in accordance with IETS recommendations; each ampule/straw contains only one embryo.

12. The embryos will be shipped in a container that is new or that has been cleaned and disinfected; fresh liquid nitrogen will be used to charge the container; a USDA seal will be applied to the container by a USDA or USDA-accredited veterinarian prior to shipment.

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary  
Seal appears over the certificate no.)

**U.S. ORIGIN HEALTH CERTIFICATE FOR EXPORT OF  
BOVINE EMBRYOS FROM THE UNITED STATES TO VIETNAM**

**I. MINISTRY:** United States Department of Agriculture

**II. AGENCY:** Animal and Plant Health Inspection Service

**III. NAME AND ADDRESS OF CONSIGNOR:** \_\_\_\_\_  
\_\_\_\_\_

**IV. NAME AND ADDRESS OF CONSIGNEE:** \_\_\_\_\_  
\_\_\_\_\_

**V. NAME AND ADDRESS OF EMBRYO COLLECTION FACILITY:** \_\_\_\_\_  
\_\_\_\_\_

**VI. NAMES AND ADDRESSES OF FARMS OF ORIGIN OF EMBRYO DONORS:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**VII. TOTAL NUMBER OF EMBRYOS IN SHIPMENT:** \_\_\_\_\_

**VIII. EMBRYO IDENTIFICATION:** See attached sheet.

**IX. CERTIFICATION STATEMENTS**

**A.** The United States has been free of contagious bovine pleuropneumonia, East Coast fever, foot-and-mouth disease, and rinderpest for the last 3 years.

**B.** No case of vesicular stomatitis was reported within 10 km of the embryo collection (EC) facility or the farm of origin of each embryo donor during the 3 months immediately prior to collection of the embryos for export.

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary  
Seal appears over the certificate no.)

**C.** The EC facility and the farm of origin of each embryo donor have been officially free of brucellosis and tuberculosis for the last 3 years.

**D.** The EC facility and the farm of origin of each embryo donor have been clinically free of Johne's disease for the last 3 years.

**E.** The EC facility and the farm of origin of each embryo donor have been clinically free of bovine genital campylobacteriosis (BGC), bovine virus diarrhea (BVD), leptospirosis, and trichomonosis for the last 12 months.

**F.** The semen used to produce the embryos met Certified Semen Services standards or equivalent.

**G.** Each embryo donor was healthy and free of signs of infectious disease at the time of embryo collection.

**H.** Each embryo donor was tested at some time in its life for persistent BVD virus infection, with negative results.

**I.** The embryos were collected, processed, and stored in conformance with the Manual of the International Embryo Transfer Society (IETS) and/or the OIE Terrestrial Animal Health Code.

**J.** During processing, the embryos were transferred through five washes in phosphate buffered saline (PBS) containing bovine serum albumin (BSA), then through two washes in 0.25% trypsin, pH 7.6-7.8, for a total trypsin exposure time of 60-90 seconds, then through five washes in PBS containing serum instead of BSA. Each of the washes was a 100-fold dilution of the previous one and a fresh sterile pipette was used for each transfer.

**K.** The embryos are packed in ampules/straws that are permanently marked as to collection date and identity (including breed) of the semen and embryo donors in accordance with IETS recommendations; each ampule/straw contains only one embryo.

**L.** The embryos will be shipped in a container that is new or that has been cleaned and disinfected; fresh liquid nitrogen will be used to charge the container; a USDA seal will be applied to the container by a USDA or USDA-accredited veterinarian prior to shipment.

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Name of Issuing Authorized Veterinarian

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Signature of Issuing Authorized Veterinarian and Date

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Name of Endorsing Federal Veterinarian

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Signature of Endorsing Federal Veterinarian and Date

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary  
Seal appears over the Certificate No.)

Attachment

### EMBRYO IDENTIFICATION

BREED AND REGISTERED NAME AND NUMBER* OF EMBRYO DONOR	BREED AND REGISTERED NAME AND NUMBER* OF SEMEN DONOR	NO. OF EMBRYOS	INSEM. DATE	EMBRYO COLLEC. DATE	SEMEN COLLEC. DATE

\*With breed association or equivalent